

What is Claimed is:

1. A door assembly for a microwave oven comprising:
 - a door panel at one side of the door, having a push bar and a latch both projected from one side toward a body; and
 - a latch board including;
 - levers each fitted rotatable at contact with the latch or the push bar, and
 - switches each operable at contact with the lever.
2. The door assembly as claimed in claim 1, wherein at least one of the levers has at least three arms.
3. The door assembly as claimed in claim 1, wherein the levers include;
 - a first lever for being brought into contact with the push bar, and
 - a second lever for being brought into contact with the latch.
4. The door assembly as claimed in claim 3, wherein the second lever includes;
 - a third arm for being brought into contact with the latch, and
 - a second arm and a first arm for operating the switches respectively when the third arm is pushed and rotated by the latch.
5. The door assembly as claimed in claim 3, wherein the first lever includes;
 - a second arm for being brought into contact with the push bar, and
 - a first arm for operating the switch when the second arm is pushed and rotated by the push bar.
6. The door assembly as claimed in claim 1, wherein the door panel is formed as one unit

with the door.

7. The door assembly as claimed in claim 1, wherein the latch board includes a push bar hole and a latch hole for inserting the push bar and the latch, respectively.

8. The door assembly as claimed in claim 7, wherein the latch has a sloped surface at an end part for inserting the latch into the latch hole as the sloped surface slides the latch hole.

9. The door assembly as claimed in claim 7, wherein the latch hole includes a projection on an inside edge for hooking the latch.

10. The door assembly as claimed in claim 9, wherein the lever is held by an upper side of the projection.

11. The door assembly as claimed in claim 1, further comprising a spring having one end hooked at a hook at one side of the latch, and the other end held in an upper part of the door panel.

12. The door assembly as claimed in claim 11, wherein the spring provides a restoring force for rotating the latch, which pushes the arm of the lever.

13. The door assembly as claimed in claim 1, wherein the switches are fitted on a front surface and a rear surface of the latch board in parallel.

14. The door assembly as claimed in claim 1, wherein the latch board has a fastening pin and boss, and the switch has holes for inserting the fastening pin and the boss, for fastening the switch to the latch board with screw fastened to the boss.

15. The door assembly as claimed in claim 1, wherein the levers rotate to original positions when the levers are disengaged from the latch or the push bar.

16. The door assembly as claimed in claim 15, wherein the latch board has stoppers for holding the levers at preset positions, respectively.

17. The door assembly as claimed in claim 1, wherein the levers are fitted to rotation shafts projected from the door panel respectively, and the levers fitted to the rotation shafts are held by hooks, respectively.

18. The door assembly as claimed in claim 17, wherein the lever has a sloped surface at a part the lever is brought into contact with the hook in fitting the lever to the rotation shaft.

19. A door assembly for a microwave oven comprising:
a door panel at one side of the door, having a push bar and a latch both projected from one side toward a body; and
a latch board including;
levers each fitted rotatable at contact with the latch or the push bar,
a board wall for dividing a front surface and a rear surface, and
switches fitted on the front and rear surfaces of the board wall in parallel.

20. The door assembly as claimed in claim 19, wherein the board wall has pass through holes formed therein, and the levers have extensions rotatable along the pass through holes, respectively.

21. The door assembly as claimed in claim 20, wherein the levers operate switches on the

front surface respectively, and the extensions operate the switches on the rear surfaces respectively.

22. The door assembly as claimed in claim 19, wherein the switches include a first safety switch, a second safety switch, and a monitor switch, and switches are fitted parallel to, and on opposite side of the switches.

23. A door assembly for a microwave oven comprising:

horizontal members each extended from an upper part, or a lower part of an edge of the door;

pins each formed as one unit with one of the horizontal members; and

brackets on a frame of the microwave oven, each having a hole for rotatably inserting the pin.

24. The door assembly as claimed in claim 23, wherein the pin is a projection from the horizontal member formed by pressing.

25. The door assembly as claimed in claim 23, wherein the horizontal members are formed as one unit with the door.

26. A door assembly for a microwave oven comprising:

a latch assembly including;

a door panel at one side of a door for the microwave oven,

a push bar projected from the door panel toward a body,

a latch rotatably fitted to the door panel spaced a distance away from the push bar,

a spring having one end held at an upper part of the door panel, and the other end connected to the latch, and

a fastening pin fastened through the door panel and the latch to serve as a rotation shaft of the latch, and;

a latch board including levers rotatable at contact with the latch and the push bar respectively, and switches operable at contact with the levers respectively.

27. The door assembly as claimed in claim 26, further comprising a handle linked with the latch, and fitted rotatable around the fastening pin.

28. The door assembly as claimed in claim 26, wherein the fastening pin has a head clamped between the door and the door panel.

29. The door assembly as claimed in claim 26, wherein the spring provides a restoring force for rotating the latch in one direction.

30. The door assembly as claimed in claim 26, further comprising a projection on one side part of the door panel for holding the latch such that the latch rotates no more than a desired angle.